

**CODE GENERATION FOR MAPPING OBJECT FIELDS
WITHIN NESTED ARRAYS
ABSTRACT**

A method and device for generating mapping source code to establish mapping
5 connections between enterprise system nested array object fields and legacy system nested array
object fields is disclosed. For each desired mapping connection in a received list of desired
connections, a determination of an enterprise system field and legacy system field to be mapped,
as well as a connection nesting level, is made. The identity of the system arrays containing the
enterprise and legacy system fields is also determined. A logical tree is created which includes a
10 root node, one leaf node for each desired connection, and, for each leaf node, N intermediate
nodes interconnecting the leaf node with the root node, where N is equivalent to the determined
nesting level of the connection associated with that leaf node, and where each of the N
intermediate nodes that is successively further from the root node is associated with a
successively more deeply nested target system array. The tree is then traversed depth-first to
15 generate the desired mapping source code.